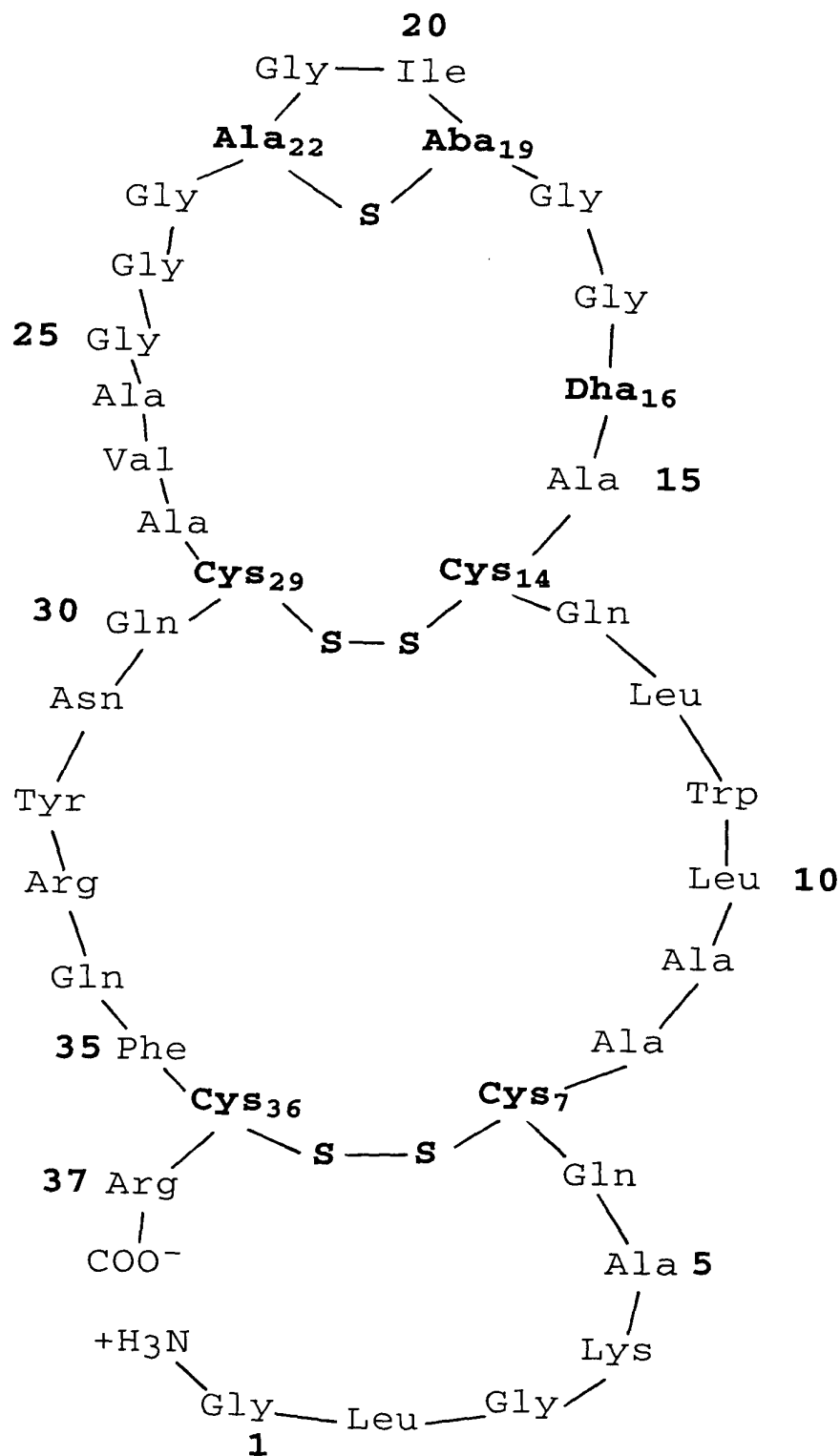


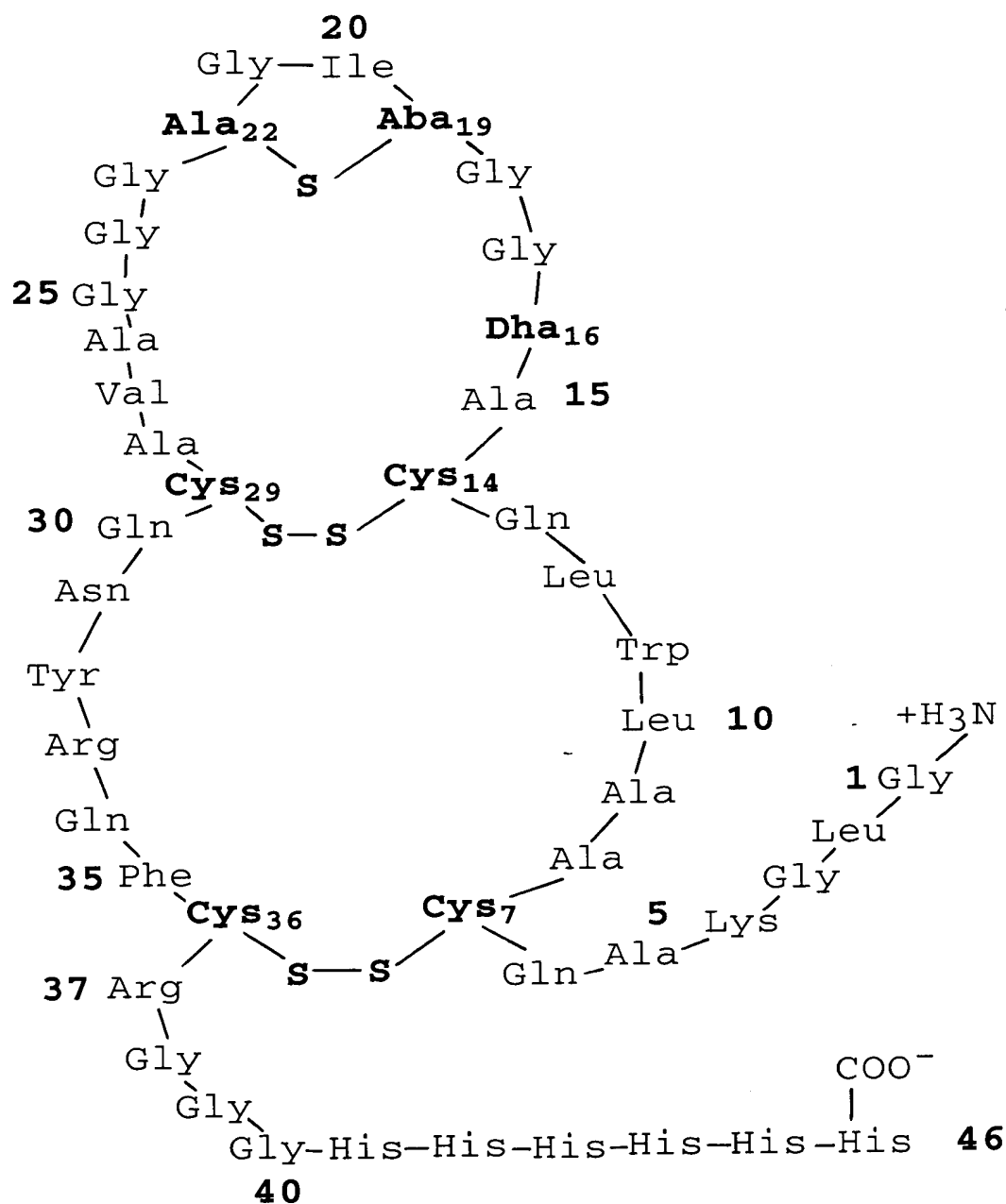
09894030-031502

Fig.1



Sublancin 168

Fig.2



Sublancin-His tag

205TED" 08045860

Fig.3

EcoRI

pTZ sequence <-----GAATTCGGGCTCTAAAGCGAT

TCTGAGAGCAGTTTCTTATACACCAGCAGAACTGCACCTTCAACGAGCTGGATTAAACAGTGGGCATAAG
 AGTTAAGATAAATTTAAACTTATATAACACATCGCTTAAAGTTTTTTTGTATTAAACCTTAAACAAACAT
 GGTAAATTTATATAAAACATAAAGAAAGAGTGATTATATGGAATATGTAGTTATGATAAATCATTTTATTA
 GCACTTTTCCTTTTACTGTTTTCCTAAATACACGTTATAGTTTGTGATGAAAAATGCTTAGTCTTAA
 AATTGGTTTATCTAAACAGAAAAATTCCAAATTAATCAAAATAGTTAGTATTAAAGAGTCAGACAAGTATGG
 AGTTGCAGATAATATCGATTATAAAATTTGGTATGCCATATGCTCAACCAGATAGAAATTTGTTATTGAAACT
 ACAATAAGCGTTTTCTAGTTTTTTTAAATGGAGCTCAACAAATTTATTCAAAAGTATAAAAGGTTAGTG
 TTTGAACATATAAAAGTACCTTCTTACAATAGAAAGTACTTTTTTTGTATCTATAATTTATAAAAATTTAC
 CTAATTTTTTATCATTTAATTCAAAATAAATCCATAATAGTCAATTTTATTAGTGTATTACAACCAA

Bam HI (~900 bp) Bam HI

TTC GGATCC <-----cat-----> GGATTCGTGTATTACAACCAATTC TGTTATTGATAGGTAATAAA
 GTTTTTTTTCTATGATTTATGAACAAGTTTCCTTATAATTTTCAAA
 AAAAAATAAAAAATATGGTTGAATTTAGATTTATCTTCTTTATATAATAAAAAATGTAATCCGGATTGCAA

| Sublancin leader -----> Xho I

ACAAATGGGGAGGTTTTTACAA ATGGAAAGCTATTATAAGAAAGTTAAACTCGAGGAACCTCGAAACCAA

| Sun A ----->

AAGGTAGT GGATTAGGAAAGCTCAGTGTGCTGCGTTGTGGCTACAATGTGCTAGTGCGGGTACAATTGG

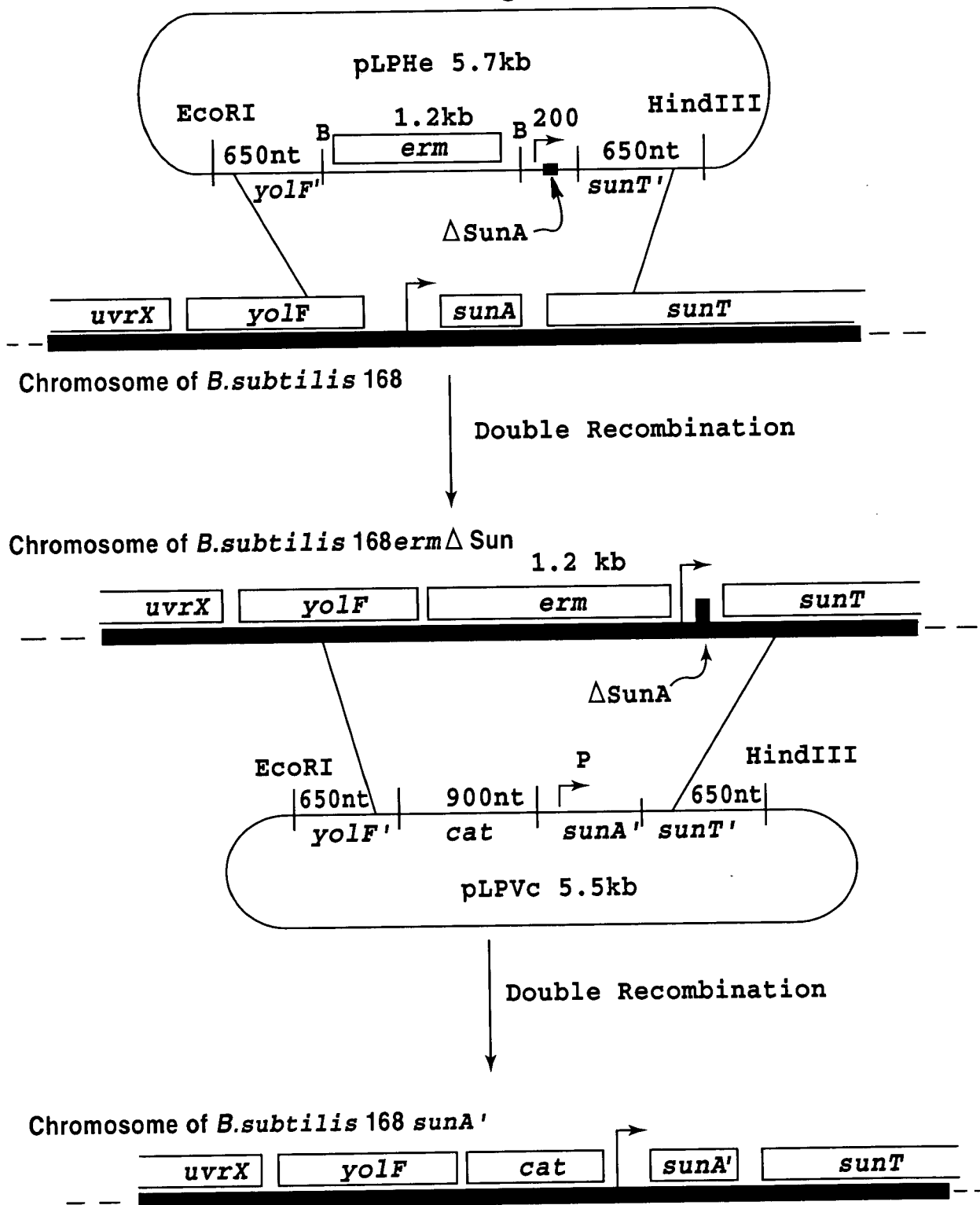
Pst I |

TTGTGGTGGCGGAGCTGTTGCTTGTCAAAACTATCGTCAATTCTGCAGA TAAACATTTGTAGAGGGAAT

ATTTTAAATATCCCTCATATTTAAAGCGGGGATTGAAATTGAATAAGAAATAAGAAATAATGTTCATACTA
 AACAGTTTAAATAGTCATGATTGTGGACTAGCTTGTATCTCGTCAATTTTAAAGTTTCAATAACCTTAACTA
 TGGAAATTGATTTCTTACTAGACCTAAATGGGGATAAGGAAGCTATAGTTTAAAGAGACTTAAATTTGTTATT
 TTTAAGAAGATGGGGATAAAACTAGGCCACTTGAAATTGCAAGAAATAAGACATTCGAAGCCCTAAAC
 AAATAAAGCTCCCTTGATAGCTTTGTAGAGGGAGGAATATGGACATTACATAACAATATACGAAAT
 TAGAAAATAACTATTTACTTTAGTGTATCTGATTAAGACAAAATAACTAAAATAAAAAAGAGGATTTT
 GAAAGTAAATTCACAAACTTTATATAGAAATTTGACAAAAGTCAATTCCTGAAAAAGAAAAGATCAAA
 AAAACATTTCTTACTTTTAAAGGACATACCTTTTAGAAAATAAATTTGATCGTTTTTTGTGATTTTATTGAC
 TTCCCTTGTTCGTTGTGGTCTTGTGAAGCTT----->pTZ sequence

HindIII

Fig.4



09894030 03150

Fig.5A

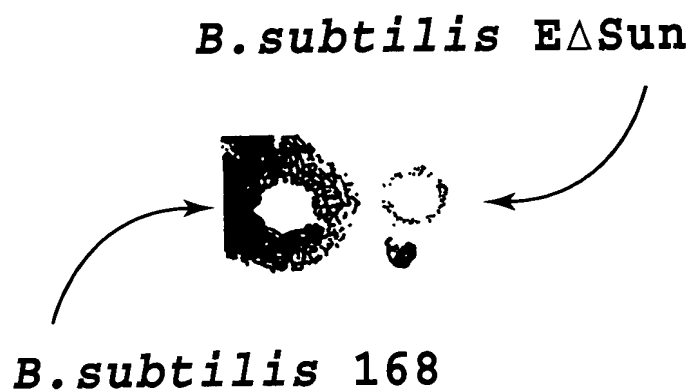


Fig.5B

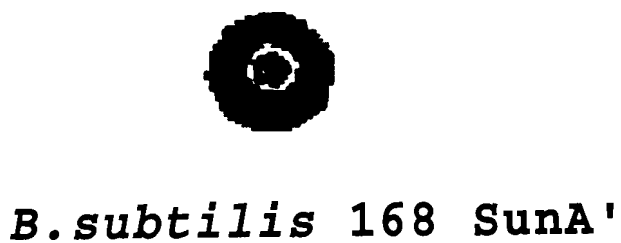


Fig.6

pLPcat Sublancin leader →
TTGCAAACAAATGGGGAGGTTTTACAA ATGGAAAAGCTATTTAAAGAAG
MetGluLysleuPheLysGluV

XhoI sublancin prep-
TTAAACTCGAGGAACTCGAAAACCAAAAAGGTAGT GGATTAGGAAAAGC
AlLysLeuGluGluLeuGluAsnGluLysGlySer GlyLeuGlyLysAl
tide →
TCAGTGTGCTGCGTTGTGGCTACAATGTGCTAGTGGCGGTACAATTGGTT
aGlnCysAlaAlaLeuTrpLeuGlnCysAlaSerGlyGlyThrIleGlyC

KasI
GTGGTGGCGGCGCCGTTGCTTGTCAAAACCTATCGTCAATTCTGTAGAGGT
ysGlyGlyGlyAlaValAlaCysGlnAsnTyrArgGlnPheCysArgGly

His Tag → Stop PstI
GGTGGTCATCATCATCATCATCATATTAGAGTCCTGCAGATAAAACA
GlyGlyHisHisHisHisHisHisHis * pLPcat →

2057E0"0E046860